

BIOTECHNOLOGY  
SYSTEMS  
BRANCH

## **RAW SEQUENCE LISTING ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/973 424  
Source: OIPE  
Date Processed by STIC: 3-12-02

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

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2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
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Revised 01/29/2002

Express Mail Label No.: **EL955089259US**  
Date of Deposit: April 25, 2002

Attorney Docket No. 15966-585 CIP2 (Cura-85 CIP2)

# 9

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANTS: Prayaga *et al.*  
SERIAL NUMBER: 09/973,424 EXAMINER: Not Yet Assigned  
FILING DATE: October 9, 2001 ART UNIT: 1653  
FOR: NOVEL POLYPEPTIDES HOMOLOGOUS TO THYMOSIN, EPHRIN A  
RECEPTORS, AND FIBROMODULIN, AND POLYNUCLEOTIDES  
ENCODING SAME

Assistant Commissioner for Patents  
Washington, D.C. 20231

**STATEMENT IN SUPPORT OF COMPUTER READABLE  
FORM SUBMISSION UNDER 37 C.F.R. § 1.821(f)**

I hereby state that the content of the paper and computer readable forms of the Sequence Listing, submitted in the above-identified application in accordance with 37 C.F.R. § 1.821(c) and 1.821(e), respectively, are the same. No new matter is added.

Respectfully submitted,

April 25, 2002



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Fax : (617) 542 2241

Does Not Comply  
Corrected Diskette Needed



RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/973,424

DATE: 03/12/2002  
TIME: 13:56:09

Input Set : A:\Cura85c1.app  
Output Set: N:\CRF3\03122002\I973424.raw

OIPE  
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MAY 03 2002  
TECH CENTER 1600/2800

3 <110> APPLICANT: Prayaga, Sudhirdas K  
4 Taupier Jr, Raymond J  
5 Bandaru, Raj  
7 <120> TITLE OF INVENTION: NOVEL POLYPEPTIDES HOMOLOGOUS TO THYMOSIN, EPHRIN A  
8 RECEPTORS, AND FIBROMODULIN, AND POLYNUCLEOTIDES  
9 ENCODING SAME  
11 <130> FILE REFERENCE: 15966-585 CIP2  
13 <140> CURRENT APPLICATION NUMBER: 09/973,424  
14 <141> CURRENT FILING DATE: 2001-10-09  
16 <150> PRIOR APPLICATION NUMBER: 60/159,805  
17 <151> PRIOR FILING DATE: 1999-10-15  
19 <150> PRIOR APPLICATION NUMBER: 60/159,992  
20 <151> PRIOR FILING DATE: 1999-10-18  
22 <150> PRIOR APPLICATION NUMBER: 60/160,952  
23 <151> PRIOR FILING DATE: 1999-10-22  
25 <150> PRIOR APPLICATION NUMBER: 09/689,486  
26 <151> PRIOR FILING DATE: 2000-10-12  
28 <150> PRIOR APPLICATION NUMBER: 09/687,276  
29 <151> PRIOR FILING DATE: 2000-10-13  
31 <160> NUMBER OF SEQ ID NOS: 84  
33 <170> SOFTWARE: PatentIn Ver. 2.1

#### ERRORED SEQUENCES

2417 <210> SEQ ID NO: 62  
2418 <211> LENGTH: 378  
2419 <212> TYPE: PRT  
2420 <213> ORGANISM: Homo sapiens  
2422 <400> SEQUENCE: 62  
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2424 1 5 10 15  
2426 Ala Thr Thr Thr Gly Cys Thr Gly Gly Ala Cys Ala Cys Gly Thr Cys  
2427 20 25 30  
2429 Gly Ala Cys Cys Ala Thr Cys Cys Ala Cys Gly Gly Gly Gly Ala Cys  
2430 35 40 45  
2432 Thr Gly Gly Gly Gly Cys Thr Gly Gly Cys Thr Cys Ala Cys Gly Thr  
2433 50 55 60  
2435 Ala Thr Cys Cys Gly Gly Cys Thr Cys Ala Thr Gly Gly Gly Thr Gly  
2436 65 70 75 80  
2438 Gly Gly Ala Cys Thr Cys Cys Ala Thr Cys Ala Ala Cys Gly Ala Gly  
2439 85 90 95  
2441 Gly Thr Gly Gly Ala Cys Gly Ala Gly Thr Cys Cys Thr Thr Cys Cys

— Length does not match number of amino acids present, 1020.

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/973,424

DATE: 03/12/2002

TIME: 13:56:09

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Output Set: N:\CRF3\03122002\I973424.raw

2442				100				105					110			
2444	Ala	Gly	Cys	Cys	Cys	Ala	Thr	Cys	Cys	Ala	Cys	Ala	Cys	Gly	Thr	Ala
2445				115				120					125			
2447	Cys	Cys	Ala	Gly	Gly	Thr	Thr	Thr	Gly	Cys	Ala	Ala	Cys	Gly	Thr	Cys
2448				130				135					140			
2450	Ala	Thr	Gly	Ala	Gly	Cys	Cys	Cys	Ala	Ala	Cys	Cys	Ala	Gly	Ala	
2451	145					150					155				160	
2453	Ala	Cys	Ala	Ala	Cys	Thr	Gly	Gly	Cys	Thr	Gly	Cys	Gly	Cys	Ala	Cys
2454					165					170					175	
2456	Gly	Ala	Gly	Cys	Thr	Gly	Gly	Gly	Thr	Cys	Cys	Cys	Cys	Cys	Gly	Ala
2457				180					185					190		
2459	Gly	Ala	Cys	Gly	Gly	Cys	Gly	Cys	Cys	Cys	Gly	Gly	Cys	Gly	Cys	Gly
2460				195				200					205			
2462	Thr	Cys	Thr	Ala	Thr	Gly	Cys	Thr	Gly	Ala	Gly	Ala	Thr	Cys	Ala	Ala
2463				210				215					220			
2465	Gly	Thr	Thr	Thr	Ala	Cys	Cys	Cys	Thr	Gly	Cys	Gly	Cys	Gly	Ala	Cys
2466	225					230					235					240
2468	Thr	Gly	Cys	Ala	Ala	Cys	Ala	Gly	Cys	Ala	Thr	Gly	Cys	Cys	Thr	Gly
2469					245					250					255	
2471	Gly	Thr	Gly	Thr	Gly	Cys	Thr	Gly	Gly	Gly	Cys	Ala	Cys	Cys	Thr	Gly
2472				260					265					270		
2474	Cys	Ala	Ala	Gly	Gly	Ala	Gly	Ala	Cys	Cys	Thr	Thr	Cys	Ala	Ala	Cys
2475				275				280					285			
2477	Cys	Thr	Cys	Thr	Ala	Cys	Thr	Ala	Cys	Cys	Thr	Gly	Gly	Ala	Gly	Thr
2478				290				295				300				
2480	Cys	Gly	Gly	Ala	Cys	Cys	Gly	Cys	Gly	Ala	Cys	Cys	Thr	Gly	Gly	Gly
2481	305					310					315					320
2483	Gly	Gly	Cys	Cys	Ala	Gly	Cys	Ala	Cys	Ala	Cys	Ala	Ala	Gly	Ala	Ala
2484					325					330					335	
2486	Ala	Gly	Cys	Cys	Ala	Gly	Thr	Thr	Cys	Cys	Thr	Cys	Ala	Ala	Ala	Ala
2487				340					345				350			
2489	Thr	Cys	Gly	Ala	Cys	Ala	Cys	Cys	Ala	Thr	Thr	Gly	Cys	Gly	Gly	Cys
2490				355				360					365			
2492	Cys	Gly	Ala	Cys	Gly	Ala	Gly	Ala	Gly	Cys	Thr	Thr	Cys	Ala	Cys	Ala
2493				370				375					380			
2495	Gly	Gly	Thr	Gly	Cys	Cys	Gly	Ala	Cys	Cys	Thr	Thr	Gly	Gly	Thr	Gly
2496	385					390					395					400
2498	Thr	Gly	Cys	Gly	Gly	Cys	Gly	Thr	Cys	Thr	Cys	Ala	Ala	Gly	Cys	Thr
2499					405					410					415	
2501	Cys	Ala	Ala	Cys	Ala	Cys	Gly	Gly	Ala	Gly	Gly	Thr	Gly	Cys	Gly	Cys
2502				420					425					430		
2504	Ala	Gly	Thr	Gly	Thr	Gly	Gly	Gly	Thr	Cys	Cys	Cys	Cys	Thr	Cys	Ala
2505				435				440					445			
2507	Gly	Cys	Ala	Ala	Gly	Cys	Gly	Cys	Gly	Gly	Cys	Thr	Thr	Cys	Thr	Ala
2508				450				455				460				
2510	Cys	Cys	Thr	Gly	Gly	Cys	Cys	Thr	Thr	Cys	Cys	Ala	Gly	Gly	Ala	Cys
2511	465					470					475					480
2513	Ala	Thr	Ala	Gly	Gly	Thr	Gly	Cys	Cys	Thr	Gly	Cys	Cys	Thr	Gly	Gly
2514					485					490						495

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/973,424

DATE: 03/12/2002

TIME: 13:56:09

Input Set : A:\Cura85c1.app

Output Set: N:\CRF3\03122002\I973424.raw

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2516 Cys Cys Ala Thr Cys Cys Thr Cys Thr Cys Thr Cys Thr Cys Cys Gly
2517          500          505          510
2519 Cys Ala Thr Cys Thr Ala Cys Thr Ala Thr Ala Ala Gly Ala Ala Gly
2520          515          520          525
2522 Thr Gly Cys Cys Cys Thr Gly Cys Cys Ala Thr Gly Gly Thr Gly Cys
2523          530          535          540
2525 Gly Cys Ala Ala Thr Cys Thr Gly Gly Cys Thr Gly Cys Cys Thr Thr
2526 545          550          555          560
2528 Cys Thr Cys Gly Gly Ala Gly Gly Cys Ala Gly Thr Gly Ala Cys Gly
2529          565          570          575
2531 Gly Gly Gly Gly Cys Cys Gly Ala Cys Thr Cys Gly Thr Cys Cys Thr
2532          580          585          590
2534 Cys Ala Cys Thr Gly Gly Thr Gly Gly Ala Gly Gly Thr Gly Ala Gly
2535          595          600          605
2537 Gly Gly Gly Cys Cys Ala Gly Thr Gly Cys Gly Thr Gly Cys Gly Gly
2538          610          615          620
2540 Cys Ala Cys Thr Cys Ala Gly Ala Gly Gly Ala Gly Cys Gly Gly Gly
2541 625          630          635          640
2543 Ala Cys Ala Cys Ala Cys Cys Cys Ala Ala Gly Ala Thr Gly Thr Ala
2544          645          650          655
2546 Cys Thr Gly Cys Ala Gly Cys Gly Cys Gly Gly Ala Gly Gly Gly Cys
2547          660          665          670
2549 Gly Ala Gly Thr Gly Gly Cys Thr Cys Gly Thr Gly Cys Cys Cys Ala
2550          675          680          685
2552 Thr Cys Gly Gly Cys Ala Ala Thr Gly Cys Gly Thr Gly Thr Gly
2553          690          695          700
2555 Cys Ala Gly Thr Gly Cys Cys Gly Gly Cys Thr Ala Cys Gly Ala Gly
2556 705          710          715          720
2558 Gly Ala Gly Cys Gly Gly Cys Gly Gly Gly Ala Thr Gly Cys Cys Thr
2559          725          730          735
2561 Gly Thr Gly Thr Gly Gly Cys Cys Thr Gly Thr Gly Ala Gly Cys Thr
2562          740          745          750
2564 Gly Gly Gly Cys Thr Thr Cys Thr Ala Cys Ala Ala Gly Thr Cys Ala
2565          755          760          765
2567 Gly Cys Cys Cys Cys Thr Gly Gly Gly Ala Cys Cys Ala Gly Cys
2568          770          775          780
2570 Thr Gly Thr Gly Thr Gly Cys Cys Cys Gly Cys Thr Gly Cys Cys Cys
2571 785          790          795          800
2573 Thr Cys Cys Cys Cys Ala Cys Ala Gly Cys Cys Ala Cys Thr Cys Cys
2574          805          810          815
2576 Gly Cys Ala Gly Cys Thr Cys Cys Ala Gly Cys Cys Gly Cys Cys Cys
2577          820          825          830
2579 Ala Ala Gly Cys Cys Thr Gly Cys Cys Ala Cys Thr Gly Thr Gly Ala
2580          835          840          845
2582 Cys Cys Thr Cys Ala Gly Cys Thr Ala Cys Thr Ala Cys Cys Gly Thr
2583          850          855          860
2585 Gly Cys Ala Gly Cys Cys Cys Thr Gly Gly Ala Cys Cys Cys Gly Cys
2586 865          870          875          880
2588 Cys Gly Thr Cys Cys Thr Cys Ala Gly Cys Cys Thr Gly Cys Ala Cys

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Output Set: N:\CRF3\03122002\I973424.raw

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2589          885          890          895
2591 Cys Cys Gly Gly Cys Cys Ala Cys Cys Cys Thr Cys Gly Gly Cys Ala
2592          900          905          910
2594 Cys Cys Ala Gly Thr Gly Ala Ala Cys Cys Thr Gly Ala Thr Cys Thr
2595          915          920          925
2597 Cys Cys Ala Gly Thr Gly Thr Gly Ala Ala Thr Gly Gly Gly Ala Cys
2598          930          935          940
2600 Ala Thr Cys Ala Gly Thr Gly Ala Cys Thr Cys Thr Gly Gly Ala Gly
2601 945          950          955          960
2603 Thr Gly Gly Gly Cys Cys Cys Cys Thr Cys Cys Cys Cys Thr Gly Gly
2604          965          970          975
2606 Ala Cys Cys Cys Ala Gly Gly Thr Gly Gly Cys Cys Gly Cys Ala Gly
2607          980          985          990
2609 Thr Gly Ala Cys Ala Thr Cys Ala Cys Cys Thr Ala Cys Ala Ala Thr
2610          995          1000          1005
2612 Gly Cys Cys Gly Thr Gly Thr Gly Cys Cys Gly Cys
E--> 2613 1010          1015          1020
2616 <210> SEQ ID NO: 63
2617 <211> LENGTH: (338) - number does not match number of
2618 <212> TYPE: PRT amino acids present, 515
2619 <213> ORGANISM: Gallus gallus
2621 <400> SEQUENCE: 63
2622 Ala Arg Gly Glu Val Asn Leu Leu Asp Thr Ser Thr Ile His Gly Asp
2623 1 5 10 15
2625 Trp Gly Trp Leu Thr Tyr Pro Ala His Gly Trp Asp Ser Ile Asn Glu
2626 20 25 30
2628 Val Asp Glu Ser Phe Gln Pro Ile His Thr Tyr Gln Val Cys Asn Val
2629 35 40 45
2631 Met Ser Pro Asn Gln Asn Asn Trp Leu Arg Thr Ser Trp Val Pro Arg
2632 50 55 60
2634 Asp Gly Ala Arg Arg Val Tyr Ala Glu Ile Lys Phe Thr Leu Arg Asp
2635 65 70 75 80
2637 Cys Asn Ser Met Pro Gly Val Leu Gly Thr Cys Lys Glu Thr Phe Asn
2638 85 90 95
2640 Leu Tyr Tyr Leu Glu Ser Asp Arg Asp Leu Gly Ala Ser Thr Gln Glu
2641 100 105 110
2643 Ser Gln Phe Leu Lys Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr
2644 115 120 125
2646 Gly Ala Asp Leu Gly Val Arg Arg Leu Lys Leu Asn Thr Glu Val Arg
2647 130 135 140
2649 Ser Val Gly Pro Leu Ser Lys Arg Gly Phe Tyr Leu Ala Phe Gln Asp
2650 145 150 155 160
2652 Ile Gly Ala Cys Leu Ala Ile Leu Ser Leu Arg Ile Tyr Tyr Lys Lys
2653 165 170 175
2655 Cys Pro Ala Met Val Arg Asn Leu Ala Ala Phe Ser Glu Ala Val Thr
2656 180 185 190
2658 Gly Ala Asp Ser Ser Ser Leu Val Glu Val Arg Gly Gln Cys Val Arg
2659 195 200 205
2661 His Ser Glu Glu Arg Asp Thr Pro Lys Met Tyr Cys Ser Ala Glu Gly

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## RAW SEQUENCE LISTING

DATE: 03/12/2002

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TIME: 13:56:09

Input Set : A:\Cura85cl.app

Output Set: N:\CRF3\03122002\I973424.raw

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2662      210      215      220
2664 Glu Trp Leu Val Pro Ile Gly Lys Cys Val Cys Ser Ala Gly Tyr Glu
2665 225      230      235      240
2667 Glu Arg Arg Asp Ala Cys Val Ala Cys Glu Leu Gly Phe Tyr Lys Ser
2668      245      250      255
2670 Ala Pro Gly Asp Gln Leu Cys Ala Arg Cys Pro Pro His Ser His Ser
2671      260      265      270
2673 Ala Ala Pro Ala Ala Gln Ala Cys His Cys Asp Leu Ser Tyr Tyr Arg
2674      275      280      285
2676 Ala Ala Leu Asp Pro Pro Ser Ser Ala Cys Thr Arg Pro Pro Ser Ala
2677      290      295      300
2679 Pro Val Asn Leu Ile Ser Ser Val Asn Gly Thr Ser Val Thr Leu Glu
2680 305      310      315      320
2682 Trp Ala Pro Pro Leu Asp Pro Gly Gly Arg Ser Asp Ile Thr Tyr Asn
2683      325      330      335
2685 Ala Val Cys Arg Arg Cys Pro Trp Ala Leu Ser Arg Cys Glu Ala Cys
2686      340      345      350
2688 Gly Ser Gly Thr Arg Phe Val Pro Gln Gln Thr Ser Leu Val Gln Ala
2689      355      360      365
2691 Ser Leu Leu Val Ala Asn Leu Leu Ala His Met Asn Tyr Ser Phe Trp
2692      370      375      380
2694 Ile Glu Ala Val Asn Gly Val Ser Asp Leu Ser Pro Glu Pro Arg Arg
2695 385      390      395      400
2697 Ala Ala Val Val Asn Ile Thr Thr Asn Gln Ala Ala Pro Ser Gln Val
2698      405      410      415
2700 Val Val Ile Arg Gln Glu Arg Ala Gly Gln Thr Ser Val Ser Leu Leu
2701      420      425      430
2703 Trp Gln Glu Pro Glu Gln Pro Asn Gly Ile Ile Leu Glu Tyr Glu Ile
2704      435      440      445
2706 Lys Tyr Tyr Glu Lys Asp Lys Glu Met Gln Ser Tyr Ser Thr Leu Lys
2707      450      455      460
2709 Ala Val Thr Thr Arg Ala Thr Val Ser Gly Leu Lys Pro Gly Thr Arg
2710 465      470      475      480
2712 Tyr Val Phe Gln Val Arg Ala Arg Thr Ser Ala Gly Cys Gly Arg Phe
2713      485      490      495
2715 Ser Gln Ala Met Glu Val Glu Thr Gly Lys Pro Arg Pro Arg Tyr Asp
2716      500      505      510
2718 Thr Arg Thr

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E--&gt; 2719 515

2722 &lt;210&gt; SEQ ID NO: 64

2723 &lt;211&gt; LENGTH: 326

2724 &lt;212&gt; TYPE: PRT

2725 &lt;213&gt; ORGANISM: Bos taurus

2727 &lt;400&gt; SEQUENCE: 64

2728 Ala Thr Gly Gly Thr Gly Gly Thr Gly Gly Cys Ala Cys Ala Cys Cys

2729 1 5 10 15

2731 Cys Cys Ala Cys Cys Gly Cys Cys Ala Cys Thr Gly Cys Cys Ala Cys

2732 20 25 30

2734 Cys Ala Cys Cys Ala Cys Gly Cys Cys Cys Ala Cys Thr Gly Cys Cys

number does not match the number  
of amino acids present, 1992.

RAW SEQUENCE LISTING  
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Input Set : A:\Cura85cl.app  
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2735		35				40			45
2737	Ala	Cys	Thr	Gly	Thr	Cys	Ala	Cys	Gly
2738		50				55			60
2740	Thr	Thr	Gly	Thr	Gly	Ala	Thr	Gly	Ala
2741	65					70			75
2743	Cys	Ala	Cys	Cys	Ala	Thr	Gly	Gly	Ala
2744					85				90
2746	Gly	Ala	Cys	Thr	Gly	Gly	Cys	Thr	Gly
2747			100					105	
2749	Gly	Cys	Thr	Ala	Cys	Gly	Gly	Gly	Cys
2750			115					120	
2752	Cys	Thr	Thr	Cys	Cys	Thr	Gly	Ala	Cys
2753		130						135	
2755	Ala	Thr	Cys	Gly	Ala	Cys	Ala	Gly	Cys
2756	145					150			155
2758	Gly	Cys	Cys	Cys	Cys	Thr	Cys	Gly	Gly
2759					165			170	
2761	Cys	Thr	Gly	Cys	Gly	Ala	Cys	Ala	Cys
2762					180			185	
2764	Ala	Thr	Cys	Thr	Ala	Cys	Thr	Gly	Cys
2765			195					200	
2767	Gly	Gly	Gly	Gly	Ala	Cys	Thr	Cys	Ala
2768		210						215	
2770	Cys	Cys	Cys	Cys	Gly	Cys	Ala	Gly	Ala
2771	225					230			235
2773	Gly	Ala	Thr	Gly	Ala	Thr	Gly	Cys	Cys
2774					245			250	
2776	Thr	Cys	Thr	Ala	Cys	Cys	Thr	Gly	Cys
2777					260			265	
2779	Cys	Cys	Ala	Gly	Ala	Thr	Cys	Ala	Cys
2780			275					280	
2782	Gly	Gly	Cys	Ala	Thr	Cys	Cys	Cys	Cys
2783		290						295	
2785	Thr	Cys	Ala	Ala	Gly	Ala	Cys	Cys	Ala
2786	305					310			315
2788	Cys	Gly	Thr	Gly	Cys	Ala	Gly	Gly	Thr
2789					325			330	
2791	Cys	Thr	Ala	Thr	Ala	Cys	Gly	Ala	Gly
2792					340			345	
2794	Thr	Gly	Gly	Ala	Thr	Gly	Ala	Gly	Thr
2795			355					360	
2797	Cys	Ala	Ala	Cys	Cys	Thr	Gly	Cys	Cys
2798		370						375	
2800	Cys	Thr	Cys	Cys	Gly	Gly	Gly	Ala	Gly
2801	385							390	
2803	Thr	Gly	Cys	Ala	Gly	Gly	Ala	Cys	Ala
2804					405			410	
2806	Gly	Cys	Gly	Cys	Ala	Cys	Cys	Ala	Thr
2807					420			425	



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TIME: 13:56:10

Input Set : A:\Cura85c1.app

Output Set: N:\CRF3\03122002\I973424.raw

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2809 Gly Ala Cys Thr Cys Gly Cys Thr Gly Gly Cys Cys Cys Gly Cys Ala
2810          435          440          445
2812 Thr Cys Cys Cys Gly Cys Thr Gly Cys Thr Gly Gly Ala Gly Ala Ala
2813          450          455          460
2815 Gly Cys Thr Gly Cys Ala Cys Cys Thr Gly Gly Ala Thr Gly Ala Cys
2816 465          470          475          480
2818 Ala Ala Cys Thr Cys Cys Gly Thr Gly Thr Cys Cys Ala Cys Cys Gly
2819          485          490          495
2821 Thr Cys Ala Gly Cys Ala Thr Thr Gly Ala Gly Gly Ala Gly Gly Ala
2822          500          505          510
2824 Cys Gly Cys Cys Thr Thr Cys Gly Cys Cys Gly Ala Cys Ala Gly Cys
2825          515          520          525
2827 Ala Ala Ala Cys Ala Gly Cys Thr Cys Ala Ala Gly Cys Thr Gly Cys
2828          530          535          540
2830 Thr Cys Thr Thr Cys Cys Thr Gly Ala Gly Cys Cys Gly Gly Ala Ala
2831 545          550          555          560
2833 Cys Cys Ala Cys Cys Thr Gly Ala Gly Cys Ala Gly Cys Ala Thr Cys
2834          565          570          575
2836 Cys Cys Cys Thr Cys Gly Gly Gly Gly Cys Thr Gly Cys Cys Gly Cys
2837          580          585          590
2839 Ala Cys Ala Cys Gly Cys Thr Gly Gly Ala Gly Gly Ala Gly Cys Thr
2840          595          600          605
2842 Gly Cys Gly Gly Cys Thr Gly Gly Ala Thr Gly Ala Cys Ala Ala Cys
2843          610          615          620
2845 Cys Gly Cys Ala Thr Cys Thr Cys Cys Ala Cys Cys Ala Thr Cys Cys
2846 625          630          635          640
2848 Cys Gly Cys Thr Gly Cys Ala Thr Gly Cys Cys Thr Thr Cys Ala Ala
2849          645          650          655
2851 Gly Gly Gly Cys Cys Thr Cys Ala Ala Cys Ala Gly Cys Cys Thr Gly
2852          660          665          670
2854 Cys Gly Gly Cys Gly Cys Cys Thr Gly Gly Thr Gly Cys Thr Gly Gly
2855          675          680          685
2857 Ala Cys Gly Gly Thr Ala Ala Cys Cys Thr Gly Cys Thr Gly Gly Cys
2858          690          695          700
2860 Cys Ala Ala Cys Cys Ala Gly Cys Gly Cys Ala Thr Cys Gly Cys Cys
2861 705          710          715          720
2863 Gly Ala Cys Gly Ala Cys Ala Cys Cys Thr Thr Cys Ala Gly Cys Cys
2864          725          730          735
2866 Gly Cys Cys Thr Ala Cys Ala Gly Ala Ala Cys Cys Thr Cys Ala Cys
2867          740          745          750
2869 Ala Gly Ala Gly Cys Thr Cys Thr Cys Gly Cys Thr Gly Gly Thr Gly
2870          755          760          765
2872 Cys Gly Cys Ala Ala Thr Thr Cys Gly Cys Thr Gly Gly Cys Cys Gly
2873          770          775          780
2875 Cys Gly Cys Cys Ala Cys Cys Cys Cys Thr Cys Thr Ala Cys Cys Thr
2876 785          790          795          800
2878 Gly Cys Ala Gly Gly Ala Cys Ala Ala Thr Gly Cys Cys Ala Thr Cys
2879          805          810          815
2881 Ala Gly Cys Cys Ala Cys Ala Thr Cys Cys Cys Cys Thr Ala Cys Ala

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## RAW SEQUENCE LISTING

DATE: 03/12/2002

PATENT APPLICATION: US/09/973,424

TIME: 13:56:10

Input Set : A:\Cura85c1.app

Output Set: N:\CRF3\03122002\I973424.raw

2882		820		825		830	
2884	Ala Cys	Ala Cys Gly Cys Thr Gly Gly Cys Cys	Ala Ala Gly Ala Thr				
2885		835		840		845	
2887	Gly Cys	Gly Thr Gly Ala Gly Cys Thr Gly Gly Ala Gly Cys Gly Gly					
2888		850		855		860	
2890	Cys Thr	Gly Gly Ala Cys Cys Thr Gly Thr Cys Cys Ala Ala Cys Ala					
2891	865		870		875		880
2893	Ala Cys	Ala Ala Cys Cys Thr Gly Ala Cys Cys Ala Cys Gly Cys Thr					
2894		885		890		895	
2896	Gly Cys	Cys Cys Gly Cys Gly Gly Cys Cys Thr Gly Thr Thr Cys					
2897		900		905		910	
2899	Gly Ala	Cys Gly Ala Cys Cys Thr Gly Gly Gly Gly Ala Ala Cys Cys					
2900		915		920		925	
2902	Thr Gly	Gly Cys Cys Cys Ala Gly Cys Thr Gly Cys Thr Gly Cys Thr					
2903		930		935		940	
2905	Cys Ala	Gly Gly Ala Ala Cys Ala Ala Cys Cys Cys Thr Thr Gly Gly					
2906	945		950		955		960
2908	Thr Thr	Thr Thr Gly Thr Gly Gly Cys Thr Gly Cys Ala Ala Cys Cys					
2909		965		970		975	
2911	Thr Cys	Ala Thr Gly Thr Gly Gly Cys Thr Gly Cys Gly Gly Gly Ala					
2912		980		985		990	
2914	Cys Thr	Gly Gly Gly Thr Gly Ala Ala Gly Gly Cys Ala Cys Gly Gly					
2915		995		1000		1005	
2917	Gly Cys	Gly Gly Cys Cys Gly Thr Gly Gly Thr Cys Ala Ala Cys Gly					
2918	1010		1015		1020		
2920	Thr Gly	Cys Gly Gly Gly Cys Cys Thr Cys Ala Thr Gly Thr Gly					
2921	1025		1030		1035		1040
2923	Cys Cys	Ala Gly Gly Cys Cys Cys Thr Gly Ala Gly Ala Ala Gly					
2924		1045		1050		1055	
2926	Gly Thr	Cys Cys Gly Gly Gly Cys Ala Thr Gly Gly Cys Cys Ala					
2927		1060		1065		1070	
2929	Thr Cys	Ala Ala Gly Gly Ala Cys Ala Thr Thr Ala Cys Cys Ala Gly					
2930		1075		1080		1085	
2932	Cys Gly	Ala Gly Gly Thr Gly Gly Ala Gly Ala Gly Thr Gly Thr Thr					
2933	1090		1095		1100		
2935	Thr Thr	Gly Ala Gly Ala Cys Gly Gly Gly Cys Gly Cys Cys Gly Cys					
2936	1105		1110		1115		1120
2938	Ala Gly	Gly Gly Cys Gly Gly Cys Gly Thr Gly Gly Cys Cys Ala Ala					
2939		1125		1130		1135	
2941	Thr Gly	Cys Gly Gly Cys Thr Gly Cys Cys Ala Ala Gly Ala Cys Cys					
2942		1140		1145		1150	
2944	Ala Cys	Gly Gly Cys Cys Ala Gly Cys Ala Ala Cys Cys Ala Cys Gly					
2945		1155		1160		1165	
2947	Cys Cys	Thr Cys Thr Gly Cys Cys Ala Cys Cys Ala Cys Gly Cys Cys					
2948	1170		1175		1180		
2950	Cys Cys	Ala Gly Gly Gly Thr Thr Cys Cys Cys Thr Gly Thr Thr Thr					
2951	1185		1190		1195		1200
2953	Ala Cys	Cys Cys Thr Cys Ala Ala Gly Gly Cys Cys Ala Ala Ala Ala					
2954		1205		1210		1215	

## RAW SEQUENCE LISTING

DATE: 03/12/2002

PATENT APPLICATION: US/09/973,424

TIME: 13:56:10

Input Set : A:\Cura85c1.app

Output Set: N:\CRF3\03122002\I973424.raw

```

2956 Gly Gly Cys Cys Ala Gly Gly Gly Cys Thr Gly Cys Gly Cys Cys Thr
2957           1220           1225           1230
2959 Cys Cys Cys Cys Gly Ala Cys Thr Cys Cys Ala Ala Cys Ala Thr Thr
2960           1235           1240           1245
2962 Gly Ala Cys Thr Ala Cys Cys Cys Cys Ala Thr Gly Gly Cys Cys Ala
2963           1250           1255           1260
2965 Cys Gly Gly Gly Thr Gly Ala Thr Gly Gly Cys Gly Cys Cys Ala Ala
2966 1265           1270           1275           1280
2968 Gly Ala Cys Cys Cys Thr Gly Gly Cys Cys Ala Thr Cys Cys Ala Cys
2969           1285           1290           1295
2971 Gly Thr Gly Ala Ala Gly Gly Cys Cys Cys Thr Gly Ala Cys Gly Gly
2972           1300           1305           1310
2974 Cys Ala Gly Ala Cys Thr Cys Cys Ala Thr Cys Cys Gly Cys Ala Thr
2975           1315           1320           1325
2977 Cys Ala Cys Gly Thr Gly Gly Ala Ala Gly Gly Cys Cys Ala Cys Gly
2978           1330           1335           1340
2980 Cys Thr Cys Cys Cys Cys Gly Cys Cys Thr Cys Cys Thr Cys Thr Thr
2981 1345           1350           1355           1360
2983 Thr Cys Cys Gly Gly Cys Thr Cys Ala Gly Thr Thr Gly Gly Cys Thr
2984           1365           1370           1375
2986 Gly Cys Gly Cys Cys Thr Gly Gly Gly Cys Cys Ala Cys Ala Gly Cys
2987           1380           1385           1390
2989 Cys Cys Ala Gly Cys Cys Gly Thr Gly Gly Gly Cys Thr Cys Cys Ala
2990           1395           1400           1405
2992 Thr Cys Ala Cys Gly Gly Ala Gly Ala Cys Cys Thr Thr Gly Gly Thr
2993           1410           1415           1420
2995 Gly Cys Ala Gly Gly Gly Gly Ala Cys Ala Ala Gly Ala Cys Ala
2996 1425           1430           1435           1440
2998 Gly Ala Gly Thr Ala Cys Cys Thr Gly Cys Thr Gly Ala Cys Ala Gly
2999           1445           1450           1455
3001 Cys Cys Cys Thr Gly Gly Ala Gly Cys Cys Cys Ala Ala Gly Thr Cys
3002           1460           1465           1470
3004 Cys Ala Cys Cys Thr Ala Cys Ala Thr Cys Ala Thr Cys Thr Gly Cys
3005           1475           1480           1485
3007 Ala Thr Gly Gly Thr Cys Ala Cys Cys Ala Thr Gly Gly Ala Gly Ala
3008           1490           1495           1500
3010 Cys Cys Ala Gly Cys Ala Ala Thr Gly Cys Cys Thr Ala Cys Gly Thr
3011 1505           1510           1515           1520
3013 Ala Gly Cys Thr Gly Ala Thr Gly Ala Gly Ala Cys Ala Cys Cys Cys
3014           1525           1530           1535
3016 Gly Thr Gly Thr Gly Thr Gly Cys Cys Ala Ala Gly Gly Cys Ala Gly
3017           1540           1545           1550
3019 Ala Gly Ala Cys Ala Gly Cys Cys Gly Ala Cys Ala Gly Cys Thr Ala
3020           1555           1560           1565
3022 Thr Gly Gly Cys Cys Cys Thr Ala Cys Cys Ala Cys Cys Ala Cys Ala
3023           1570           1575           1580
3025 Cys Thr Cys Ala Ala Cys Cys Ala Gly Gly Ala Gly Cys Ala Gly Ala
3026 1585           1590           1595           1600
3028 Ala Cys Gly Cys Thr Gly Gly Cys Cys Cys Cys Ala Thr Gly Gly Cys

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/973,424

DATE: 03/12/2002

TIME: 13:56:10

Input Set : A:\Cura85c1.app

Output Set: N:\CRF3\03122002\I973424.raw

```
3029          1605          1610          1615
3031 Gly Ala Gly Cys Cys Thr Gly Cys Cys Cys Cys Thr Gly Gly Cys Gly
3032          1620          1625          1630
3034 Gly Gly Cys Ala Thr Cys Ala Thr Cys Gly Gly Cys Gly Gly Gly Gly
3035          1635          1640          1645
3037 Cys Ala Gly Thr Gly Gly Cys Thr Cys Thr Gly Gly Thr Cys Thr Thr
3038          1650          1655          1660
3040 Cys Cys Thr Cys Thr Thr Cys Cys Thr Gly Gly Thr Cys Cys Thr Gly
3041 1665          1670          1675          1680
3043 Gly Gly Gly Gly Cys Cys Ala Thr Cys Thr Gly Cys Thr Gly Gly Thr
3044          1685          1690          1695
3046 Ala Cys Gly Thr Gly Cys Ala Cys Cys Ala Gly Gly Cys Thr Gly Gly
3047          1700          1705          1710
3049 Cys Gly Ala Gly Cys Thr Gly Cys Thr Gly Ala Cys Cys Cys Gly Gly
3050          1715          1720          1725
3052 Gly Ala Gly Ala Gly Gly Gly Cys Cys Thr Ala Cys Ala Ala Cys Cys
3053          1730          1735          1740
3055 Gly Gly Gly Gly Cys Ala Gly Cys Ala Gly Gly Ala Ala Ala Ala Ala
3056 1745          1750          1755          1760
3058 Gly Gly Ala Thr Gly Ala Cys Thr Ala Thr Ala Thr Gly Gly Ala Gly
3059          1765          1770          1775
3061 Thr Cys Ala Gly Gly Gly Ala Cys Cys Ala Ala Gly Ala Ala Gly Gly
3062          1780          1785          1790
3064 Ala Thr Ala Ala Cys Thr Cys Cys Ala Thr Cys Cys Thr Gly Gly Ala
3065          1795          1800          1805
3067 Ala Ala Thr Cys Cys Gly Cys Gly Cys Cys Cys Thr Gly Gly Gly
3068          1810          1815          1820
3070 Cys Thr Gly Cys Ala Gly Ala Thr Gly Cys Thr Gly Cys Cys Cys Ala
3071 1825          1830          1835          1840
3073 Thr Cys Ala Ala Cys Cys Cys Gly Thr Ala Cys Cys Gly Cys Gly Cys
3074          1845          1850          1855
3076 Cys Ala Ala Ala Gly Ala Ala Gly Ala Gly Thr Ala Cys Gly Thr Gly
3077          1860          1865          1870
3079 Gly Thr Cys Cys Ala Cys Ala Cys Thr Ala Thr Cys Thr Thr Cys Cys
3080          1875          1880          1885
3082 Cys Cys Thr Cys Cys Ala Ala Cys Gly Gly Cys Ala Gly Cys Ala Gly
3083          1890          1895          1900
3085 Cys Cys Thr Cys Thr Gly Cys Ala Ala Gly Gly Cys Cys Ala Cys Ala
3086 1905          1910          1915          1920
3088 Cys Ala Cys Ala Cys Cys Ala Thr Thr Gly Gly Cys Thr Ala Cys Gly
3089          1925          1930          1935
3091 Gly Cys Ala Cys Cys Ala Cys Gly Cys Gly Gly Gly Gly Cys Thr Ala
3092          1940          1945          1950
3094 Cys Cys Gly Gly Gly Ala Cys Gly Gly Cys Gly Gly Cys Ala Thr Cys
3095          1955          1960          1965
3097 Cys Cys Cys Gly Ala Cys Ala Thr Ala Gly Ala Cys Thr Ala Cys Thr
3098          1970          1975          1980
3100 Cys Cys Thr Ala Cys Ala Cys Ala
E--> 3101 1985          1990
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/973,424

DATE: 03/12/2002

TIME: 13:56:11

Input Set : A:\Cura85c1.app

Output Set: N:\CRF3\03122002\I973424.raw

L:2613 M:252 E: No. of Seq. differs, <211>LENGTH:Input:378 Found:1020 SEQ:62  
L:2719 M:252 E: No. of Seq. differs, <211>LENGTH:Input:338 Found:515 SEQ:63  
L:3101 M:252 E: No. of Seq. differs, <211>LENGTH:Input:326 Found:1992 SEQ:64